

Listing and Amendments to the Claims

This listing of claims will replace the claims that were published in the PCT Application:

1. (currently amended) A switched mode power supply having a transformer (T1), which has a primary winding (W1) and at least one secondary winding (W2—W5), having a switching transistor (Q1) in series with the primary winding (W1) and a control circuit (IC1) for controlling an output voltage (U3—U5), the control circuit (IC1) containing an oscillator (O) which can be set via a terminal (4), ~~characterized in that~~ wherein the terminal (4) is coupled to a secondary winding (W2) for increasing the oscillation frequency of the switch switched mode power supply during operation, with regard to the start-up phase.
2. (currently amended) The switched mode power supply as claimed in claim 1, ~~characterized in that~~ wherein the terminal (4) is connected to a rectified voltage (U2) which is provided on the primary side by the secondary winding (W2) via a first rectifier means (D4).
3. (currently amended) The switched mode power supply as claimed in claim 2, ~~characterized in that~~ wherein the terminal (4) is connected via a bandpass filter (C2, R1) and a second rectifier means (D6) to the first rectifier means (D4).
4. (currently amended) The switched mode power supply as claimed in claim 3, ~~characterized in that~~ wherein the bandpass filter (C2, R1) has a time constant which is smaller than the period of the switching frequency of the switching transistor (Q1).
5. (currently amended) The switched mode power supply as claimed in ~~one of the preceding claims,~~ ~~characterized in that~~ claim 1, wherein the control circuit (IC1) is arranged in an integrated circuit, and in that the integrated circuit has an oscillator (O), whose oscillation frequency can be set via the terminal (4) using external circuitry (Rt, Ct).

6. (currently amended) The switched mode power supply as claimed in ~~one of the preceding claims, characterized in that~~ claim 1, wherein the terminal (4) is connected to a first capacitor (~~Ct~~) for the purpose of determining the oscillation frequency of the oscillator (~~O~~) once the switched mode power supply has been connected, and in that the terminal (4) is connected via a resistor (~~R2~~) to the secondary winding (~~W2~~) for the purpose of increasing the oscillation frequency of the oscillator (~~O~~) during the normal mode of operation of the switched mode power supply.
7. (currently amended) The switched mode power supply as claimed in claim 6, ~~characterized in that~~ wherein the secondary winding (~~W2~~) is connected via the first rectifier means (~~D4~~) to a bandpass filter (~~R1, C2~~) for the purpose of generating a rectified pulsed voltage during the normal mode of operation (~~U2~~), and in that the rectified pulsed voltage (~~U2~~) is connected via the second rectifier means (~~D6~~) and the resistor (~~R2~~) to the terminal (4) of the control circuit.
8. (currently amended) The switched mode power supply as claimed in ~~one of the preceding claims 2—7, characterized in that~~ claim 2, wherein the first rectifier means (~~D4~~) is connected via a third rectifier means (~~D5~~) to a capacitor (~~C3~~) for the purpose of generating an operating voltage (~~VCC~~) for the control circuit (~~IC1~~).
9. (currently amended) The switched mode power supply as claimed in ~~one of the preceding claims, characterized in that~~ claim 1, wherein the control circuit is integrated in an integrated circuit (~~IC1~~), which acts as a current mode controller and is coupled to a measurement resistor (~~RS~~) connected in series with the switching transistor (~~Q1~~).